

CLAIMS

What is claimed is:

1. An electrical interconnection arrangement for mating to a PC board, comprising:

a cable laminate adapted to receive a plurality of twinaxial cables;

an interposer including a plurality of spring contacts;

wherein said interposer has a first side adapted to mate with said cable laminate and electrically connect said plurality of spring contacts each to one end of said plurality of twinaxial cables; and

wherein said interposer has a second side adapted to mate with the PC board and electrically connect said plurality of spring contacts to mating contact points on the PC board, thereby electrically connecting said twinaxial cables to the PC board.

2. An electrical interconnection arrangement comprising:

an adapter adapted to receive a twinaxial cable; and

first and second coaxial cable type connectors located on said adapter;

wherein an inner conductor of said first coaxial cable type connector is electrically connected to a first inner conductor of said twinaxial cable and an inner conductor of said second coaxial cable type connector is electrically connected to a second inner conductor of said twinaxial cable; and

wherein an outer shell of said first and second coaxial cable type connectors is connected to an outer conductive shield of said twinaxial cable, thereby enabling said twinaxial cable to be electrically connected to two coaxial cable type connectors.

3. The arrangement of claim 1, further comprising:

a plurality of adapters, each of said adapters adapted to receive a respective one of said plurality of twinaxial cables; and

first and second coaxial cable type connectors located on each of said adapter;

wherein an inner conductor of said first coaxial cable type connector of the each of said plurality of adapters is electrically connected to a first inner conductor of its

respective twinaxial cable and an inner conductor of said second coaxial cable type connector of each of said plurality of adapters is electrically connected to a second inner conductor of its twinaxial cable; and

wherein an outer shell of said first and second coaxial cable type connectors of each of said adapters is connected to an outer conductive shield of its respective twinaxial cable, thereby enabling each of said plurality of twinaxial cables to be electrically connected to two respective coaxial cable type connectors.

4. The arrangement of claim 1, further comprising:

another cable laminate adapted to receive a second end of said plurality of twinaxial cables;

another interposer including a another plurality of spring contacts;

wherein said another interposer has a first side adapted to mate with said another cable laminate and electrically connect said plurality of spring contacts to said another end of said plurality of twinaxial cables; and

wherein said another interposer has a second side adapted to mate with another PC board and electrically connect said another plurality of spring contacts to mating contact points on said another PC board, thereby electrically connecting said another PC board to said PC board.

5. The arrangement of claim 2, further comprising:

another adapter adapted to receive said twinaxial cable; and

third and fourth coaxial cable type connectors located on said another adapter;

wherein an inner conductor of said third coaxial cable type connector is electrically connected to a first inner conductor of said twinaxial cable and an inner conductor of said fourth coaxial cable type connector is electrically connected to a second inner conductor of said twinaxial cable; and

wherein an outer shell of said third and fourth coaxial cable type connectors is connected to an outer conductive shield of said twinaxial cable, thereby enabling said third and fourth coaxial cable type connectors to be respectively electrically connected to two coaxial cable type connectors.

6. The arrangement of claim 1, wherein said cable laminate is made of an electrically non-conductive material and said interposer is made of an electrically non-conductive material.

7. The arrangement of claim 1, wherein said spring contacts are fuzz buttons.

8. The arrangement of claim 1, wherein impedance is $\pm 5\%$.

9. An electrical interconnection arrangement, comprising:
a plurality of adapters, each of said adapters adapted to receive one of a plurality of twinaxial cables; and

first and second coaxial cable type connectors located on each of said adapter;

wherein an inner conductor of said first coaxial cable type connector of the each of said plurality of adapters is electrically connected to a first inner conductor of its respective twinaxial cable and an inner conductor of said second coaxial cable type connector of each of said plurality of adapters is electrically connected to a second inner conductor of its twinaxial cable; and

wherein an outer shell of said first and second coaxial cable type connectors of each of said adapters is connected to an outer conductive shield of its respective twinaxial cable, thereby enabling each of said plurality of twinaxial cables to be electrically connected to two respective coaxial cable type connectors.

10. The electrical interconnection of claim 9 further comprises:
a cable laminate adapted to receive a respective one of said plurality of twinaxial cables;

an interposer including a plurality of spring contacts;

wherein said interposer has a first side adapted to mate with said cable laminate and electrically connect said plurality of spring contacts each to one end of said plurality of twinaxial cables; and

wherein said interposer has a second side adapted to mate with the PC board and electrically connect said plurality of spring contacts to mating contact points on the PC board, thereby electrically connecting said twinaxial cables to the PC board.

11. The arrangement of claim 9, further comprising:

another cable laminate adapted to receive a second end of said plurality of twinaxial cables;

another interposer including a another plurality of spring contacts;

wherein said another interposer has a first side adapted to mate with said another cable laminate and electrically connect said plurality of spring contacts to said another end of said plurality of twinaxial cables; and

wherein said another interposer has a second side adapted to mate with another PC board and electrically connect said another plurality of spring contacts to mating contact points on said another PC board, thereby electrically connecting said another PC board to said PC board.

12. The arrangement of claim 2, wherein said adapter has a T-shape.

13. The arrangement of claim 3, wherein an electrically non-conductor insulator is positioned in one connection of said adapter and a coaxial cable is positioned therein and one end thereof is in contact with a twinax cable.

14. The arrangement of claim 3, wherein said adapter has a T-shape.

15. The arrangement of claim 3, wherein an electrically non-conductor insulator is positioned in one connection of said adapter and a coaxial cable is positioned therein and one end thereof is in contact with a twinax cable.

16. The arrangement of claim 5, wherein said adapter has a T-shape.

17. The arrangement of claim 5, wherein an electrically non-conductor insulator is positioned in one connection of said adapter and a coaxial cable is positioned therein and one end thereof is in contact with a twinax cable.

18. The arrangement of claim 9, wherein said adapter has a T-shape.

19. The arrangement of claim 9, wherein an electrically non-conductor insulator is positioned in one connection of said adapter and a coaxial cable is positioned therein and one end thereof is in contact with a twinax cable.